Necessary tools, devices, materials

To connect GalileoSky terminal (hereinafter – terminal) one should have:

1. Electrical tools.

Picture 1

2. Windows-based computer with the installed program of configuration of the terminals – "Configurator".

Picture 2

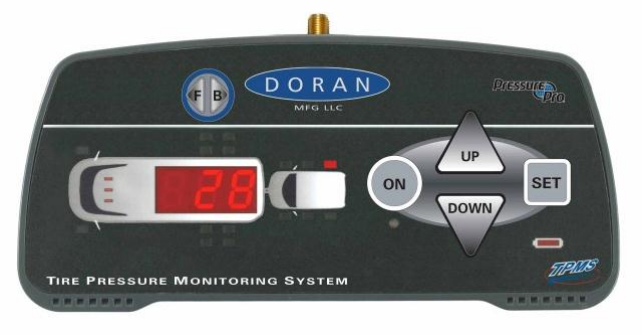
3. Set of PressurePro tire-pressure monitoring system.

Picture 3

General information

The GalileoSky terminals (hereinafter – terminal) can operate with PressurePro tire-pressure monitoring system (hereinafter – PressurePro TPMS). PressurePro TPMS is a wireless electronic control system composed of the following functional parts:

1. Monitor (Pic. 4) – the display to view the information about tire pressure. With the help of the monitor you can configure PressurePro TPMS.



Picture 4. PressurePro TPMS monitor

2. Pressure sensors (Pic. 5). Pressure sensor, which is screwed on the nipple of the wheels of the vehicle, transmits a coded radio signal to the monitor, located in the cabin of the vehicle. In case of deviation of pressure in any of the wheels from a specified base values - the display shows current pressure and the sound signal is heard.

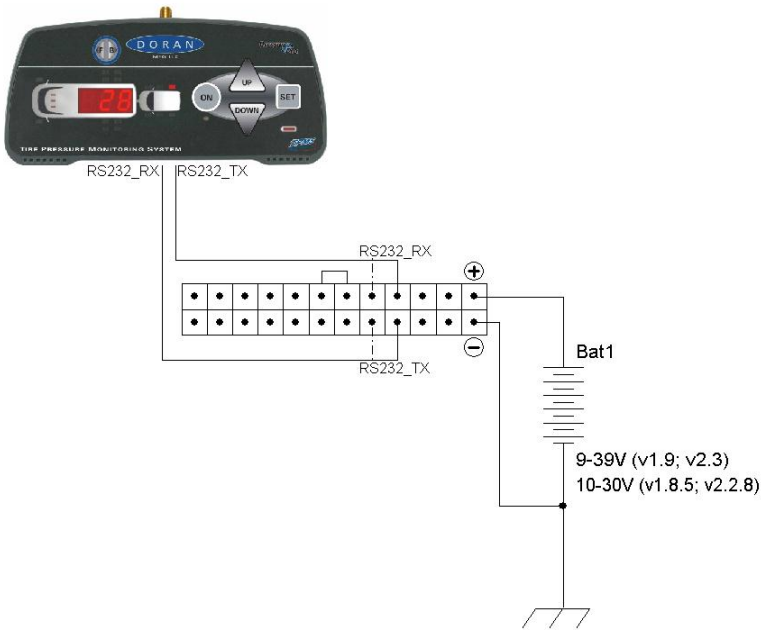
Picture 5. PressurePro pressure sensors

PressurePro TPMS connection

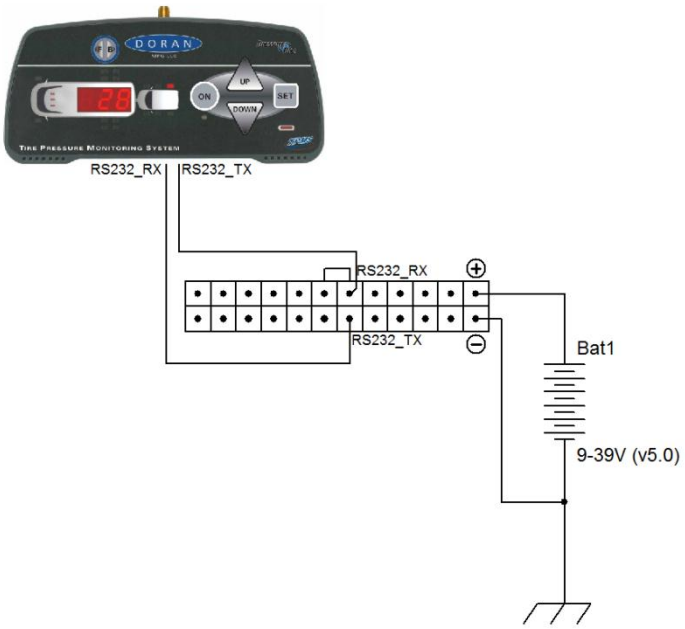
Connection of PressurePro TPMS to GalileoSky terminal of v.1.x and v.2.x versions is carried out in accordance with the scheme of Picture 6 of this manual.

Connection of PressurePro TPMS to GalileoSky terminal of v.5.0 versions is carried out in accordance with the scheme of Picture 7 of this manual

ATTENTION! Grounds (GND) of the terminal and PressurePro TPMS must be connected, RS232 contacts must be connected strictly according to the scheme: RX of PressurePro TPMS - TXD0 (1) of the terminal and TX of PressurePro TPMS - RXD0(1) of the terminal. PressurePro TPMS is powered separately.



Picture 6. PressurePro TPMS connection scheme



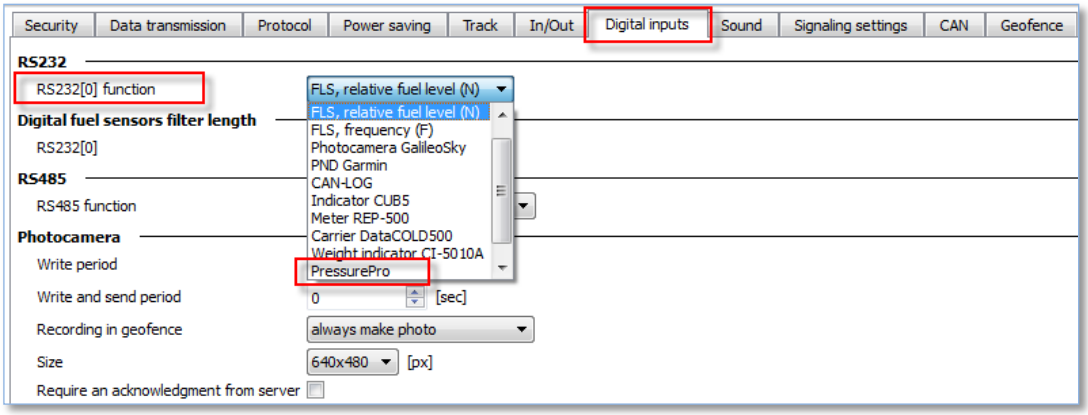
Picture 7. PressurePro TPMS connection scheme

Configuring of the terminal to operate with PressurePro TPMS

Operation of the GalileoSky terminal with PressurePro TPMS is possible with the firmware not lower than the 201st version.

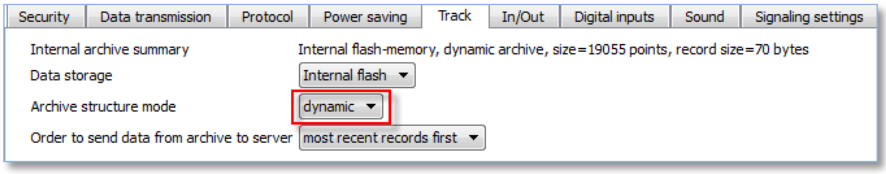
Settings of GalileoSky terminal are performed via the Configurator in the following order:

1. Go to the "Settings" tab -> "Digital inputs" and select "Pressure Pro "in the RS232 field (Pic. 8).



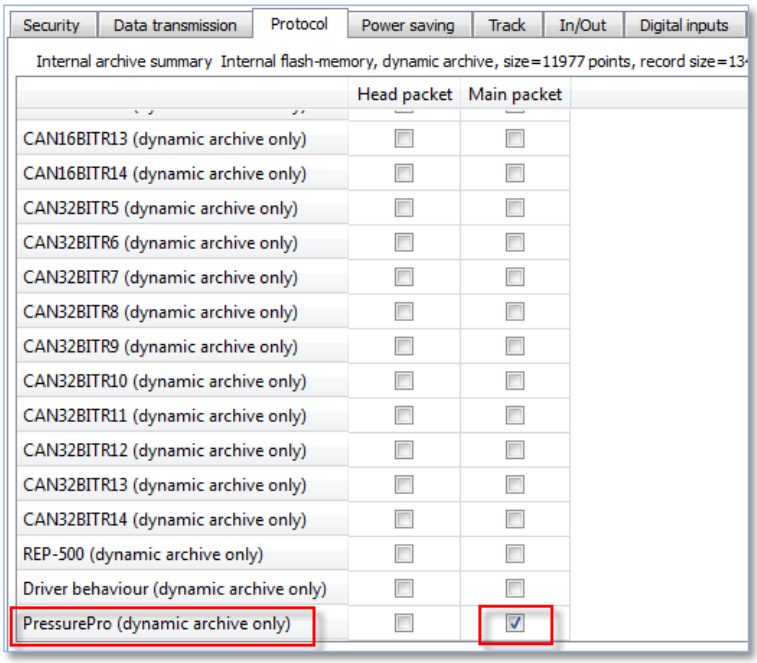
Picture 8. Setting of RS232 input

2. Go to the "Settings" tab -> "Track" and select "Dynamic" in the "Internal archive structure" field (Pic. 9).



Picture 9. Setting of archive structure

3. Go to the "Settings" tab -> "Protocol" and tick the field "Main packet" in "PressurePro" line and press "Apply" button (Pic. 10).

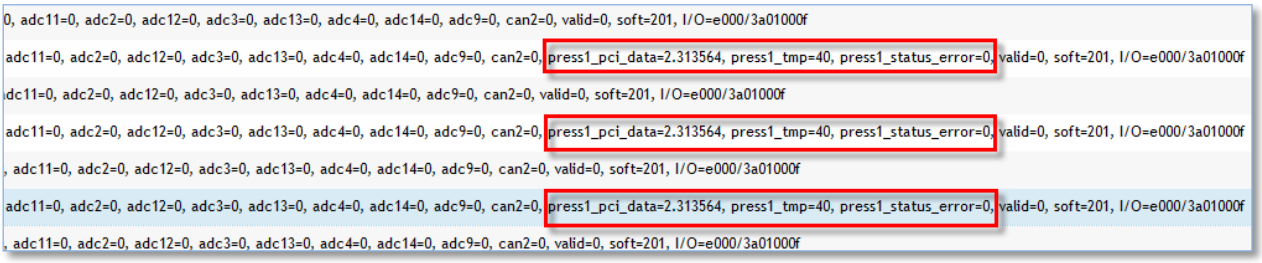


Picture 10. Setting of main packet

In normal state PressurePro TPMS data is transmitted to the monitoring server with a frequency once in 5 (five) minutes. In case if there is a sign of emergency transfer in PressurePro TPMS data, the GalileoSky terminal immediately begins data transmission to the monitoring server.

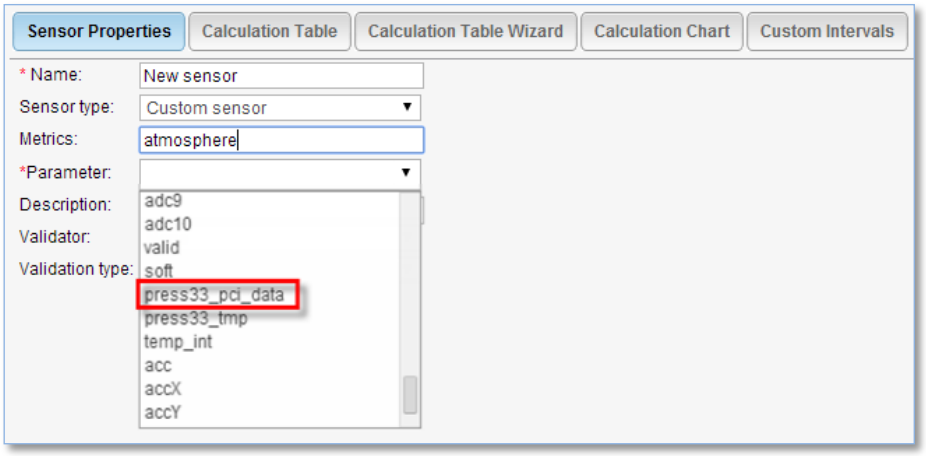
Setting of monitoring software

Start the monitoring software and make sure that PressurePro TPMS data are being sent to the program (Pic. 11).



Picture 11. Check of receipt of data

If necessary create a pressure and (or) temperature sensor according to recommendations of the producer of the monitoring software (Pic. 12).



Picture 12. Sensor creation in the monitoring software

Connection of PressurePro TPMS to the GalileoSky terminal is completed; the terminal is ready to operate.